

A. Nelson

CRF Error Corrected by th STIC Syst Branch

Serial Number: 08/908,884

CRF Processing Date: 7/29/98 8/28/98
Edited by: [Signature]
Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- ☒ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☒ Inserted ~~mandatory~~ headings, specifically: Seq 28 - added "TYPE:" to "MOLECULE"
- ☐ Corrected an obvious error in the response, specifically:

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other:

*Examin r: Th abov corrections must be communicated to th applicant in th first Office Action. DO NOT send a copy of this form. 3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884DATE: 08/24/98
TIME: 12:45:50

INPUT SET: S3378.raw

<p>This Raw Listing contains the General Information Section and up to the first 5 pages.</p>

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information
4
5 (i) APPLICANT: Dong et al.
6
7 (ii) TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
8
9 (iii) NUMBER OF SEQUENCES: 28
10
11 (iv) CORRESPONDENCE ADDRESS:
12 (A) ADDRESSEE: Clark & Elbing LLP
13 (B) STREET: 176 Federal Street
14 (C) CITY: Boston
15 (D) STATE: MA
16 (E) COUNTRY: USA
17 (F) ZIP: 02110
18
19
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Diskette
22 (B) COMPUTER: IBM Compatible
23 (C) OPERATING SYSTEM: DOS
24 (D) SOFTWARE: FastSEQ for Windows Version 2.0
25
26 (vi) CURRENT APPLICATION DATA:
27 (A) APPLICATION NUMBER:
28 (B) FILING DATE:
29 (C) CLASSIFICATION:
30
31 (vii) PRIOR APPLICATION DATA:
32 (A) APPLICATION NUMBER: 60/023,851
33 (B) FILING DATE: August 9, 1996
34
35 (A) APPLICATION NUMBER: 60/035,166
36 (B) FILING DATE: January 10, 1997
37
38 (A) APPLICATION NUMBER: 60/046,769
39 (B) FILING DATE: May 16, 1997
40
41
42 (viii) ATTORNEY/AGENT INFORMATION:
43 (A) NAME: Elbing, Karen L
44 (B) REGISTRATION NUMBER: 35,238
45 (C) REFERENCE/DOCKET NUMBER: 00786/339004
46

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884DATE: 08/24/98
TIME: 12:45:52

INPUT SET: S3378.raw

47 (ix) TELECOMMUNICATION INFORMATION:
48 (A) TELEPHONE: 617-428-0200
49 (B) TELEFAX: 617-428-7045
50
51
52
53 (2) INFORMATION FOR SEQ ID NO:1:
54
55 (i) SEQUENCE CHARACTERISTICS:
56 (A) LENGTH: 7548 base pairs
57 (B) TYPE: nucleic acid
58 (C) STRANDEDNESS: double
59 (D) TOPOLOGY: linear
60
61 (ii) MOLECULE TYPE: Genomic DNA
62
63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
64
65 AAGCTTGTGA TGCAAGTCAT GGGATATTGC TTTGTGTTAA GTATACAAAA CCATCACGTG 60
66 GATACATAGT CTTCAAACCA ACCACTAAAC AGTATCAGGT CATACCAAAG CCAGAAGTGA 120
67 AGGGTTGGGA TATGTCATTG GGTTCAGCGG TAATCGGATT GAACCCTTTC CGGTATAAAA 180
68 TACAAAGGCT TTCGCAGTCT CGGCGTATGT GTATGTCTCG GGGTATCTAC CATTTGAATC 240
69 ACAGAACTTT TATGTGCGAA GTTTTCGATT CTGATTCGTT TACCTGGAAG AGATTAGAAA 300
70 TTTGCGTCTA CCAAAAACAG ACAGATTAAT TTTTTC AAC CCGATACAAG TTTCGGGGTT 360
71 CTTGCATTGG ATATCACGGA ACAACAATGT GATCCGGTTT TGTCTCAAAA CCGAAACTTG 420
72 GTCCTTCTTC CATACTCCGA ACTCTGATGT TTTCTCAGGA TTAGTCAGAT ACGAAGGGAA 480
73 GCTAGGTGCT ATTTCGTCAGT GGACAAACAA AGATCAAGAA GATGTTTCACG AGTTATGGGT 540
74 TTTAAAGAGC AGTTTTGAAA AGTCGTGGGT TAAAGTGAAA GATATTAAAA GCATTGGAGT 600
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76 TTGCTTCTAC AACATAAACG CAGAGAAGTT GAATTTAGTT TATGCAAAAA AAGAGGGATC 720
77 TGATTGTTCT TTCGTTTGTT TTCCGTTTTG TTCTGATTAC GAGAGGGTTG ATCTGAACGG 780
78 AAGAAGCAAC GGGCCGACAC TTTAAAAAAA AAATAAAAAA AATGGGCCGA CAAATGCAAA 840
79 CGTAGTTGAC AAGGATCTCA AGTCTCAAGT CTCAATTGGC TCGCTCATTG TGGGGCATAA 900
80 ATATATCTAG TGATGTTTAA TTGTTTTTTA TAAGGTAAAA AGGAATATTG AATTTTGTTT 960
81 CTTAGGTTTA TGTAATAATA CCAAACATTG TTTTATGAAT ATTTAATCTG ATTTTTTGGC 1020
82 TAGTTATTTT ATTATATCAA GGGTTCCTGT TTATAGTTGA AAACAGTTAC TGTATAGAAA 1080
83 ATAGTGTCCTC AATTTTCTCT CTAAATAAT ATATTAGTTA ATAAAAGATA TTTTAATATA 1140
84 TTAGATATAC AATAATATCT AAAGCAACAC ATATTTAGAC ACAACACGTA ATATCTTACT 1200
85 ATTGTTTACA TATATTTATA GCTTACCAAT ATAACCCGTA TCTATGTTTT ATAAGCTTTT 1260
86 ATACAATATA TGTACGGTAT GCTGTCCACG TATATATATT CTCCAAAAA AACGCATGGT 1320
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88 ATCAACTATA ATAGATGGTA GAAGATAAAA AAATTATATC AGATTGATTG AATTAAATTT 1440
89 TATAATATAT CATTTTAAAA AATTAATTAA AAGAAAATA TTTCAATAAA TTGTTCAAAA 1500
90 GATAATTAGT AAAATTAATT AAATATGTGA TGCTATTGAA TTATAGAGAG TTATTGTAAA 1560
91 TTTACTTAAA ATCATACAAA TCTTATCCTA ATTTAACTTA TCATTTAAGA AATACAAAAG 1620
92 TAAAAAACGC GGAAAGCAAT AATTTATTTA CCTTATTATA ACTCCTATAT AAAGTACTCT 1680
93 GTTTATTCAA CATAATCTTA CGTTGTTGTA TTCATAGGCA TCTTTAACCT ATCTTTTCAT 1740
94 TTTCTGATCT CGATCGTTTT CGATCCAACA AAATGAGTCT ACCGGTGAGG AACCAGAGG 1800
95 TGATTATGCA GATTCCTTCT TCTTCTCAGT TTCCAGCAAC ATCGAGTCCG GAAAACACCA 1860
96 ATCAAGTGAA GGATGAGCCA AATTTGTTTA GACGTGTTAT GAATTTGCTT TTACGTCGTA 1920
97 GTTATTGAAA AAGCTGATTT ATCGCATGAT TCAGAACGAG AAGTTGAAGG CAAATAACTA 1980
98 AAGAAGTCTT TTATATGTAT ACAATAATTG TTTTAAATC AAATCCTAAT TAAAAAATA 2040
99 TATTCATTAT GACTTTCATG TTTTAAATGT AATTTATTCC TATATCTATA ATGATTTTTG 2100

RAW SEQUENCE LISTING PATENT APPLICATION US/08/908,884

DATE: 08/24/98
TIME: 12:45:54

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103	TTATCATTTT	ACTTCAAAGA	AAATAAACAG	AAATGTAACT	TTCACATGTA	AATCTAATTC	2340
104	TTAAATTTAA	AAAATAATAT	TTATATATTT	ATATGAAAAT	AACGAACCGG	ATGAAAAATA	2400
105	AATTTTATAT	ATTTATATCA	TCTCCAAATC	TAGTTTGGTT	CAGGGGCTTA	CCGAACCGGA	2460
106	TTGAACTTCT	CATATACAAA	AATTAGCAAC	ACAAAATGTC	TCCGGTATAA	ATACTAACAT	2520
107	TTATAACCCG	AACCGGTTTA	GCTTCCTGTT	ATATCTTTTT	AAAAAAGATC	TCTGACAAAG	2580
108	ATTCCTTTCC	TGGAAATTTA	CCGGTTTTGG	TGAAATGTAA	ACCGTGGGAC	GAGGATGCTT	2640
109	CTTCATATCT	CACCACCCT	CTCGTTGACT	GGACTTGGCT	CTGCTCGTCA	ATGGTTATCT	2700
110	TCGATCTTAA	ACCAAATCCA	GTTGATAAGG	TCTCTTCGTT	GATTAGCAGA	GATCTCTTTA	2760
111	ATTTGTGAAT	TTCAATTCAT	CGGAACCTGT	TGATGGACAC	CACCATTGAT	GGATTCGCCG	2820
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113	TTTATCTGGC	CGCCGAACAA	GTACTCACCG	GACCTGATGT	ATCTGCTCTG	CAATTGCTCT	2940
114	CCAACAGCTT	CGAATCCGTC	TTTGACTCGC	CGGATGATTT	CTACAGCGAC	GCTAAGCTTG	3000
115	TTCTCTCCGA	CGGCCGGGAA	GTTTCTTTCC	ACCGGTGCGT	TTGTCTAGCG	AGAAGCTCTT	3060
116	TCTTCAAGAG	CGCTTTAGCC	GCCGCTAAGA	AGGAGAAAGA	CTCCAACAAC	ACCGCCGCCG	3120
117	TGAAGCTCGA	GCTTAAGGAG	ATTGCCAAGG	ATTACGAAAT	CGGTTTCGAT	TCGGTTGTGA	3180
118	CTGTTTTGGC	TTATGTTTAC	AGCAGCAGAG	TGAGACCGCC	GCCTAAAGGA	GTTTCTGAAT	3240
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143	AAGACGACAC	TGCTGAAGAA	ACGACTACAA	AAGAAGCAAA	GGTACATGGA	AATACAAGAG	4740
144	ACACTAAAGA	AGGCCTTTAG	TGAGGACAAT	TTGGAATTAG	GAAATTCGTC	CCTGACAGAT	4800
145	TCGACTTCTT	CCACATCGAA	ATCAACCGGT	GGAAAGAGGT	CTAACCGTAA	ACTCTCTCAT	4860
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148	TGCATCTGTG	GTATTATTGC	TGCAAGTGTG	CTTCAACAA	ATGTTGTAAC	AATTTGAACC	5040
149	AATGGTATAC	AGATTTGTAA	TATATATTTA	TGTACATCAA	CAATAACCCA	TGATGGTGTT	5100
150	ACAGAGTTGC	TAGAATCAAA	GTGTGAAATA	ATGTCAAATT	GTTTCTCTGT	TGGATATTTT	5160
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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884DATE: 08/24/98
TIME: 12:45:56

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157	TGACTCCATA	TCTCCGACCA	CTGGTCATGA	GCCAGAGCCC	ACTGATTTTG	AGGGAATTGG	5580
158	GCTAACCATT	TCCGAGCTTC	TGAGTCCTTC	TTTTTGATGT	CCTTTATGTA	GGAATCAAAT	5640
159	TCTTCCTTCT	GACTTGTGGA	TCCAGCCTGC	TTCAACAAGG	TCACCAGGTT	GTAGTCTCCA	5700
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161	TCTTGCCACA	GTGATCCGGG	TTCGTTAATA	ACAGCAACTA	TGTCCGGGTG	AGGACTGGAG	5820
162	ACGAAGCAAA	CGTCTTTCCT	TTGTGTTACC	TTCTCTCTGA	TATTAGTGAG	AAACCAACGC	5880
163	CAACTATCAG	TGGACACTTC	TTTGGTAAGC	GGAAAGCAAG	CGGGAAAAAC	AATCATCAGC	5940
164	GTCGAGTCCT	GAGGAAAAATC	ATCAATTTCA	TAGGGGTACT	TGCCGTTCAA	GTCTTTTGAA	6000
165	TCCACTATGA	TCAGAGGTCT	ACAGTGTGTA	AACCCTTCAA	TGGACTGTGG	AAACGCCCAA	6060
166	AACGCGCCAC	CGAAGGATGC	AAATTCAGGA	TTAGGGAAAA	GCTCATATTG	CAGTCCACAA	6120
167	GTAGCCCAT	AGATGAGTGA	AATGCAGCCA	ATTAGTTTAG	GCAATACTCT	GAAACTCTGA	6180
168	TCTTTGATTA	CTTCCTGTTC	TGCTGCCCGC	AGCTTTGAAG	TTTTAAGCAT	GTCACCAAAC	6240
169	TTTTCAACTC	TGCTGTTAGA	GTGGGTTGTA	CCCTGATCAG	ACACTCAATC	TCTTCTGCTG	6300
170	CAAATTACAA	GTTGAAGTTT	TCCGGCTTAA	TAGAACAACA	AGTATGTGGA	CCAATAACAC	6360
171	TTAGTTATCT	TAACAAGTCC	ATGTTCTTCT	ATTCAATCTG	CCCAGCGCGA	CCAATTGCAT	6420
172	TTCCATCTGA	TGCATTTAAA	CGTATACTCG	TCCTTCTCAA	TCTCTGTAC	TACACACTTT	6480
173	TGCTGCCCTC	TAATGGAACA	CCAGTCCACC	GCCTTCTTCA	GCTCATCCCT	ATCTTTAAAA	6540
174	CACAACCCTA	CACGCAATTC	ATGATCATCA	ATCCACAAAC	TAGACAAAGT	ACACTGTTTT	6600
175	GAAGCACTCG	AATCAACAAC	ACCTTTACTT	AATAAGCACG	CATACGGTAA	TACCTCTAAG	6660
176	CCTGGCACAT	TCAAACCTTG	TGTGCATCAT	CTGAACCCGA	GTTTTTATCC	GTTATTTCTC	6720
177	CATCCCCACC	TCCACGAGTG	CTACCATTTC	CGAAGTCAGA	ATTTTCCTCG	TCTTCAATCC	6780
178	ACCCGTTACT	GTTACCCACT	CCCTGAACCT	CTAAACCATT	ATCTCTCTCT	ACTTTCACAG	6840
179	ATGCATGTGA	CACATAATCA	GTAGCTTCTT	GGGGTTGTTG	CGTCCTCTGT	GTATTCGAGG	6900
180	AACTAGCGGG	ATATTCTATT	ACGGATGAAC	AAGCAGCATG	ATCAGTAACA	TTATCAGATG	6960
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182	CAAGCATAGT	CTCCAAACTA	GTGTCGTTCA	CTACATGAAG	AAGTAGATAG	ATAAAGAGAT	7080
183	CCGGTGAAAC	AACTACAGGA	TACTTACCAA	AATATATTGA	ACACTGATTT	CTGCAGCTGC	7140
184	AATCAAAAAA	TTGGATAAAG	ACCATTCAAC	AATGTACTTA	ACGCAGTCTT	TTGCCTAACC	7200
185	TTGACCGTTT	TAGGAGTGGA	TCCTTCATAG	TAAACACCAT	CAGGACCATA	CTTGGTAGAA	7260
186	CCTTTCTCTC	AAGGTTTCCA	TCGCCATGAC	CATAACAGTC	CTGCAGTGAA	TTCTAAGAAA	7320
187	AATGTAAAAA	ATTTTGGCCT	AAACTCATAA	TTCTTAAACAT	ACGAAACCAT	GGAGAACTCC	7380
188	ATGTCTAAAA	AATAAAGGCT	AAAGCTTTTT	GGCGACAGAA	GCAGATAAAT	CCATTCAAAA	7440
189	CACATAAACT	CTAAACAATA	AACAGTGATA	CTCAATACTA	AGACTTGTA	AGGTCTACGT	7500
190	AACTCAAAAC	TGGAGAATTG	TCAGATCGGG	TGTGGCTAGT	AGAAGCTT		7548

191

192 (2) INFORMATION FOR SEQ ID NO:2:

193

194 (i) SEQUENCE CHARACTERISTICS:

195 (A) LENGTH: 2104 base pairs

196 (B) TYPE: nucleic acid

197 (C) STRANDEDNESS: double

198 (D) TOPOLOGY: linear

199

200 (ii) MOLECULE TYPE: cDNA

201 (ix) FEATURE:

202

203 (A) NAME/KEY: Coding Sequence

204 (B) LOCATION: 93...1871

205 (D) OTHER INFORMATION:

INPUT SET: S3378.raw

[illegible]

INPUT SET: S3378.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

946 (2) INFORMATION FOR SEQ ID NO:28:

947

948 (i) SEQUENCE CHARACTERISTICS:

949 (A) LENGTH: 21 base pairs

950 (B) TYPE: nucleic acid

951 (C) STRANDEDNESS: single

952 (D) TOPOLOGY: linear

953

954 (ii) MOLECULE TYPE: DNA

955 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

956

957 RAAYTCRCAN GTNCCYTTCA T

21

958

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/908,884

DATE: 08/24/98
TIME: 12:46:01

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Line	Error	Original Text
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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884DATE: 08/24/98
TIME: 12:44:15

INPUT SET: S3378.raw

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

SEQUENCE LISTING

(1) General Information

(i) APPLICANT: Dong et al.

(ii) TITLE OF THE INVENTION:

ACQUIRED RESISTANCE GENES AND USES THEREOF

(iii) NUMBER OF SEQUENCES: 28

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Clark & Elbing LLP

(B) STREET: 176 Federal Street

(C) CITY: Boston

(D) STATE: MA

(E) COUNTRY: USA

(F) ZIP: 02110

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette

(B) COMPUTER: IBM Compatible

(C) OPERATING SYSTEM: DOS

(D) SOFTWARE: FastSEQ for Windows Version 2.0

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 60/023,851

(B) FILING DATE: August 9, 1996

(A) APPLICATION NUMBER: 60/035,166

(B) FILING DATE: January 10, 1997

(A) APPLICATION NUMBER: 60/046,769

(B) FILING DATE: May 16, 1997

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Elbing, Karen L

(B) REGISTRATION NUMBER: 35,238

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884DATE: 08/24/98
TIME: 12:44:17

INPUT SET: S3378.raw

46 (C) REFERENCE/DOCKET NUMBER: 00786/339004
47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: 617-428-0200
50 (B) TELEFAX: 617-428-7045
51
52
53

ERRORED SEQUENCES FOLLOW:

947 (2) INFORMATION FOR SEQ ID NO:28:
948
949 (i) SEQUENCE CHARACTERISTICS:
950 (A) LENGTH: 21 base pairs
951 (B) TYPE: nucleic acid
952 (C) STRANDEDNESS: single
953 (D) TOPOLOGY: linear
954
--> 955 (ii) MOLECULE ^{add "TYPE:"} DNA
956 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:
957
958 RAAATCRCAN GTNCCYTTCA T

21

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/908,884

DATE: 08/24/98
TIME: 12:44:18

INPUT SET: S3378.raw

Line	Error	Original Text
7	Mandatory Value Not Present	(ii) TITLE OF THE INVENTION:
955	Unknown or Misplaced Identifier	(ii) MOLECULE DNA

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/908,884

DATE: 08/24/98
TIME: 12:44:18

INPUT SET: S3378.raw

< < THERE ARE NO ITEMS MISSING > >